## Clean Version Of Amended Claims

(twice amended) An interconnect for testing a semiconductor component having a bumped contact comprising:

- a substrate; and
- a contact on the substrate configured to electrically engage the bumped contact, the contact comprising a recess in the substrate having a size approximately equal to that of the bumped contact, and a plurality of flexible metal leads cantilevered over the recess configured to support the bumped contact within the recess and to move within the recess by a distance sufficient to accommodate variations in a size, a shape or a planarity of the bumped contact, each metal lead having a cantilever length, a width, a thickness and a modulus of elasticity selected to provide a desired spring constant.
- 2. (twice amended) An interconnect for testing a semiconductor component having a bumped contact comprising:
  - a substrate; and
- a contact on the substrate configured to electrically engage the bumped contact, the contact comprising a recess in the substrate having a size approximately equal to that of the bumped contact, a plurality of flexible leads cantilevered over the recess configured to support the bumped contact within the recess and to move within the recess by a distance sufficient to accommodate variations in a size, a shape or a planarity of the bumped contact, each lead having a selected spring constant and at least one projection configured to penetrate the bumped contact, and a connecting segment substantially encircling a periphery of the recess configured to electrically connect the leads to one another.

- 5. (twice amended) The interconnect of claim 2 further comprising a conductive via in the substrate in electrical communication with the connecting segment.
- 6. (twide amended) An interconnect for testing a semiconductor component having a bumped contact comprising:
  - a substrate
  - a recess in the substrate; and
- a plurality of flexible metal leads on the substrate cantilevered over the recess configured to electrically engage the bumped contact and to move within the recess by a distance sufficient to accommodate variations in a size, a shape or a planarity of the bumped contact, each metal lead having a cantilever length, a width, a thickness and a modulus of elasticity selected to provide a desired spring constant, and a shape that substantially matches a topography of the bumped contact.
- 7. (twice amended) The interconnect of claim 6 wherein each lead includes a projection configured to penetrate the bumped contact.
- 8. (twice amended) An interconnect for testing a semiconductor component having a bumped contact comprising:
  - a substrate;
  - a recess in the substrate;
- a plurality of flexible leads on the substrate cantilevered over the recess configured to electrically engage the bumped contact and to move within the recess by a distance sufficient to accommodate variations in a size, a shape or a planarity of the bumped contact, each lead having a cantilever length, a width, a thickness and a modulus of elasticity selected to provide a desired spring

Ca Conclu constant, and a shape that substantially matches a topography of the bumped contact; and

a connecting segment on the substrate electrically connecting the leads to one another.

- 9. (twice amended) The interconnect of claim 8 further comprising a conductive via in the substrate in electrical communication with the connecting segment.
- 10. (twice amended) The interconnect of claim 9 further comprising a contact on the substrate in electrical communication with the conductive via.
- 11. (twice amended) The interconnect of claim 8 wherein the recess has four sides and the plurality of leads comprise four leads on the four sides.
- 12. (twice amended) An interconnect for testing a semiconductor component having a bumped contact comprising:
  - a substrate:
  - a recess in the substrate;
- a plurality of leads on the substrate cantilevered over the recess and configured to move and to electrically engage the bumped contact within the recess, each lead having a radius of curvature substantially equal to a radius of the bumped contact; and
- a segment on the substrate electrically connecting the leads.
- 17. (twice amended) The interconnect of claim 12 wherein each lead has a cantilevered length, a width, a thickness and a modulus of elasticity selected to provide a desired spring constant.

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- 18. (twice amended) The interconnect of claim 12 further comprising a conductive via in the substrate in electrical communication with the segment.
- 25. (twice amended) A system for testing a semiconductor component having a bumped contact comprising:

a carrier for retaining the semiconductor component;

an interconnect on the carrier comprising a substrate, a recess in the substrate having a size approximately equal to that of the bumped contact, a plurality of leads cantilevered over the recess configured to electrically engage the bumped contact and to move within the recess by a distance sufficient to accommodate variations in a size, a shape or a planarity of the bumped contact, and a segment on the substrate electrically connecting the leads; and

a test circuitry in electrical communication with the leads configured to apply test signals to the component.

- 26. (twice amended) The system of claim 25 wherein each lead has a radius of curvature substantially equal to a radius of the bumped contact.
- 27. (twice amended) The system of claim 25 further comprising a conductive via in the substrate in electrical communication with the segment.
- 31. (twice amended) A system for testing a semiconductor component having a bumped contact comprising:
  - a testing apparatus;
  - an interconnect on the testing apparatus comprising:
    - a substrate:
- a recess in the substrate having a size approximately equal to that of the bumped contact;
- a plurality of leads on the substrate configured to electrically engage the bumped contact, each lead

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cantilevered over the recess and configured to move within the recess by a distance sufficient to accommodate variations in a size, a shape or a planarity of the bumped contact, each lead having a cantilever length, a width, a thickness and a modulus of elasticity selected to provide a desired spring constant, and a shape substantially matching a topography of the bumped contact; and

- a connecting segment on the substrate electrically connecting the leads; and
- a test circuitry in electrical communication with the connecting segment.
- 32. (twice amended) The system of claim 31 further comprising a conductive via in the substrate in electrical communication with the connecting segment.